Serial No. 10/001,218 Atty. Docket No. 49950-59824CON4

## REMARKS

Claims 1-3 and 5-12, and 14-17 were pending in the instant application. Claims 2, 3, 5, 11, 12 and 14 have been canceled without prejudice or disclaimer, claims 1, 10 and 17 have been amended, and claims 19-22 have been added. Accordingly, claims 1, 6-10, 15-17 and 19-22 will be pending in the application upon entry of the instant Amendment.

Support for the amendments to claims 1, 10 and 17 and for the addition of claims 19-22 can be found throughout the specification and claims as originally filed. In particular, support can be found in the specification at least, for example, at page 8, lines 14-17, page 19, lines 1-14, and page 20, line 7 through page 21, line 16. No new matter has been added to the application by way of the amendments to the claims or the addition of claims.

Amendment and/or cancellation of the claims should in no way be construed as an acquiescence to any of the rejections set forth in the instant Office Action, and was done solely to expedite prosecution. Applicants reserve the right to pursue the claims as originally filed in this or one or more separate applications.

Applicants wish to thank Examiner Saidha for the helpful telephone interview with the undersigned on July 19, 2004.

## Claim Rejections - 35 U.S.C. §112, First Paragraph

Claims 1-3, 6-12 and 15-17 are rejected under 35 U.S.C. §112, first paragraph, because the specification, although enabling for the recombinant strain of *Bacillus subtilis* YB886 (pLOI1500) transformed with *Z. mobilis* ADH and PDC genes, does not reasonably provide enablement for any eukaryotic cell or a method for ethanol production, including any animal cell, insect cell or fungal cell transformed with genes encoding ADH and PDC genes.

Applicants respectfully disagree. However, without acquiescing to the rejection and in order to expedite prosecution of the application, claims 1, 10 and 17 have been amended as set forth above. Applicants submit that claims 1, 10 and 17 as amended herein, and the claims depending therefrom, are fully enabled by the specification. Therefore, Applicants respectfully request reconsideration and withdrawal of the rejection under 35 U.S.C. §112, first paragraph.

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## Non- Statutory Double Patenting

Claims 1-3, 5-12 and 14-17 are rejected under the judicially created doctrine of double patenting over claims 1 and 2 of U.S. Patent 5,482,846. Likewise, claims 1-3, 5-12 and 14-17 are rejected under the judicially created doctrine of double patenting over claims 1 and 2 of U.S. Patent 5,916,787.

Applicants file concurrently herewith two terminal disclaimers directed to U.S. Patents 5,482,846 and 5,916,787, respectively. Applicants respectfully submit that the terminal disclaimers obviate the non-statutory double patenting rejection.

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## CONCLUSION

In view of the foregoing, entry of the amendments and remarks herein, reconsideration and withdrawal of all rejections, and allowance of the instant application with all pending claims are respectfully solicited. If a telephone conversation with Applicants' attorney would help expedite the prosecution of the above-identified application, the Examiner is urged to call Applicants' attorney at the telephone number below.

Respectfully submitted,

EDWARDS & ANGELL, LLP

Peter C. Lauro, Esq.

Reg. No. 32,360 101 Federal Street Boston, MA 02110

(617) 517-5509

Date: July 20, 2004

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Application 10/001,2		Filing ( November		Examiner Saidha, T,	Art Unit					
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Invention: ETHANOL PRODUCTION IN GRAM-POSITIVE MICROBES										
TO THE COMMISSIONER FOR PATENTS										
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Application No. 10/001,218		Filing Date November 30, 2004		Examiner Saldha, T.		Art Unit 1652					
Applicant(s): Lonnie O. Ingram et al.											
Invention: ETHANOL PRODUCTION IN GRAM-POSITIVE MICROBES											
TO THE COMMISSIONER FOR PATENTS											
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The Cause Dated: July 20, 2004											
Peter C. Lauro Attorney Reg. No.: 32,360											
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